

GENERATOR ROTOR COIL END-TURN RETENTION SYSTEM AND METHOD

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ABSTRACT OF THE DISCLOSURE

The coil end-turn segments of a generator exciter rotor are retained using an end-turn retention assembly that includes an inner band and an outer band. The inner band is located around at least a portion of each of the end-turn segments and has two ends. The outer peripheral surface of the inner band is tapered such that the thickness of the inner band varies between its ends. The outer band is located around the inner band and also has two ends. The inner peripheral surface of the outer band is tapered in a fashion that is reverse to that of the inner band outer surface, and such that the outer band thickness varies between its ends. . By forming oppositely configured tapers in the inner and outer bands, the outer bands will remain in place and not migrate axially away from the lamination core during exciter rotor rotation.

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